

Task Order Progress Report

Task Order Number	0056
Task Order Title	RI/FS, United Zinc Number 1 Site
Task Order Type (Ceiling or FP)	Ceiling
Period of Performance	September 20, 2012, through March 31, 2015

This Task Order Progress Report is for the Remedial Investigation/Feasibility Study (RI/FS) at the United Zinc Number 1 Site in Iola, Kansas. This Report summarizes work performed during the reporting period as well as financial information relative to Contractor compliance with the negotiated schedule and budget detailed in the Task Order Proposal submitted to EPA Region 7 by HydroGeoLogic, Inc. (HGL) on August 22, 2012, in response to the Task Order Statement of Work (SOW) issued by the EPA Contracting Officer. The Task Order Project Officer (TOPO) for this task order is Don Bahnke. Activity on this Task Order is summarized in Sections 1 through 5 and augmented by summary Reports A through G attached. This report discusses the activities conducted under this task order for the reporting period that coincides with the calendar month. *The HGL accounting period for this time frame is September 28 through November 1, 2013.* Therefore, costs associated with some activities accomplished during the calendar month, but outside the accounting period, may appear in next month's invoice. Some activities for the period of performance are retained in the monthly report to provide background information; new information for the reporting period is provided in italic type to distinguish it from historical information.

1. ACTIVITY FOR THE REPORTING PERIOD

TASK 1 - PROJECT PLANNING AND SUPPORT (PP)

Subtask 1.1 Attend Scoping Meeting

The scoping meeting was held at EPA on July 11, 2012. Efforts for the scoping meeting were conducted as part of the contract requirements.

Subtask 1.2 Site Visit and Report

Because of time constraints in meeting the submission date for the Task Order Proposal, no site visit was completed under Subtask 1.2.

Subtask 1.3 Task Order Proposal (Work Plan)

The initial Task Order Proposal was submitted on July 25, 2012, as part of the contract requirements.

Subtask 1.4 Negotiations and Task Order Proposal Revision

HGL participated in a negotiation session with EPA on August 15, 2012. Based on discussions held during this meeting, the initial Task Order Proposal was revised. The revised Task Order Proposal was submitted on August 22 and EPA subsequently awarded the task on September 20, 2012. These efforts were conducted as part of the contract requirements.

AT8Q

40432496

10.0



Superfund

00001

Task Order Progress Report

Task Order Number	0056
Task Order Title	RI/FS, United Zinc Number 1 Site
Task Order Type (Ceiling or FP)	Ceiling
Period of Performance	September 20, 2012, through March 31, 2015

Subtask 1.5 Conflict of Interest (COI) Disclosure

The signed COI Disclosure form was submitted to EPA on July 25, 2012, with the original Task Order Proposal as Attachment A.

Subtask 1.6 Health and Safety Plan

The HSP was submitted to the EPA as an attachment to the Sampling and Analysis Plan (SAP) on November 13, 2012. The HSP was revised to accommodate electro-fishing, which was added by EPA, and the revised HSP was submitted as a component of the revised SAP on July 31, 2013. HGL received additional comments from the EPA TOPO on September 12. The comments were addressed in the HSP. A revised version of the Final plan was submitted to EPA on September 27, 2013.

Subtask 1.7 Sampling and Analysis Plan

No charges will be incurred under this subtask. The SAP consists of the Field Sampling Plan (FSP) and Quality Assurance Project Plan (QAPP); costs are allocated under these subtasks.

Subtask 1.8 Field Sampling Plan

The FSP was submitted to EPA on November 13, 2012, as a component of the SAP. In late March, HGL addressed the EPA TOPO's and Regional Quality Assurance Manager's comments. The property sampling component of the FSP was approved May 3 so field efforts could commence while HGL was awaiting comments from the EPA risk assessor to update and finalize the FSP. Comments from EPA's risk assessment contractor were provided to HGL via email from the EPA TOPO Don Bahnke on July 9. The FSP was revised to include the fish tissue samples, and accommodate the number of surface water, sediment and stream bank samples that were altered by the EPA risk assessor. The revised FSP was submitted as a component of the SAP on July 31, 2013. HGL received additional comments from the EPA TOPO on September 12. Those comments were addressed in the FSP. A revised version of the Final plan was submitted to EPA on September 27, 2013.

Subtask 1.9 Quality Assurance Project Plan

The QAPP component of the SAP was revised to accommodate changes to the field sampling efforts as described under Subtask 1.8.

Subtask 1.10 Project Management

Subtask 1.10.1 Project Management

The following project management activities were conducted during this reporting period:

- *The HGL TOM and EPA TOPO communicated via telephone and email regarding*

Task Order Progress Report

Task Order Number	0056
Task Order Title	RI/FS, United Zinc Number 1 Site
Task Order Type (Ceiling or FP)	Ceiling
Period of Performance	September 20, 2012, through March 31, 2015

project issues and scheduling.

- The HGL TOM coordinated work activities of the HGL project team.*
- Weekly cost tracking was performed.*
- Relevant documents and correspondence were incorporated into the project file.*
- The monthly progress report for the previous period was prepared.*

Subtask 1.10.2 Meetings

No activities were conducted under this subtask during this reporting period.

Subtask 1.11 Subcontractor Procurement and Management

Minimal labor costs were incurred to update purchase orders for the field rental equipment (for example: laptops, printer, GPS and ventilation hood). These items are anticipated to be returned to their vendors during the next reporting period.

Subtask 1.12 Evaluate Existing Data and Documents

No activities were conducted under this subtask during this reporting period.

Subtask 1.13 Prepare Technical Memorandum

This subtask was eliminated from the SOW during negotiations.

Subtask 1.14 Responses, Technologies, and Operable Units Memorandum

During negotiations, EPA determined that no level of effort (LOE) hours or costs will be allocated to this subtask at this time.

Subtask 1.15 Exposure Pathway Analysis

This subtask was eliminated from the SOW during negotiations.

Subtask 1.16 Applicable or Relevant and Appropriate Requirement (ARARs) Identification Letter Memorandum

No activities were conducted under this subtask during this reporting period.

Subtask 1.17 Laboratory QA Program

This subtask was eliminated from the SOW during negotiations.

Subtask 1.18 Develop and Review laboratory Qualifications

This subtask was eliminated from the SOW during negotiations.

Task Order Progress Report

Task Order Number	0056
Task Order Title	RI/FS, United Zinc Number 1 Site
Task Order Type (Ceiling or FP)	Ceiling
Period of Performance	September 20, 2012, through March 31, 2015

TASK 2 - COMMUNITY RELATIONS (CR)

Subtask 2.1 Community Interviews

This effort was descope by the EPA TOPO in May 2013.

Subtask 2.2 Community Involvement Plan

This effort was descope by the EPA TOPO in May 2013.

TASK 3 - FIELD INVESTIGATION (FI)

Subtask 3.1 Field Mobilization and Demobilization

Costs were incurred for the office space, office rental equipment and trash, internet and phone services and minor labor hours to process the bills.

Subtasks 3.2 and 3.3 – Not Assigned

Subtask 3.4 Environmental Sampling, Including Collection, Preparation, and Shipping

Costs for this subtask are detailed under Subtasks 3.4.1 through 3.4.7.

Subtask 3.4.1 Property Access

Residential property access efforts were minimal this reporting period and consisted of:

- Responding to telephone calls.*
- Mailing property owners that had not responded to previous contact attempts.*
- Leaving notes at properties informing the owner we were attempting to contact them.*
- Meeting with residents.*

HGL obtained 3 access agreements from residents for surface soil sampling for a grand total of 1,008.

HGL also obtained access to sample 5 private wells, 3 former smelter properties and 21 surface water and sediment locations.

Subtask 3.4.2 Residential Surface Soil Sampling (1,715 Properties)

Soil sampling is nearly complete, so efforts under this subtask were focused on completing sampling at remaining residential sites. The field crew generally consisted of two members. Their efforts included: collecting, preparing, and analyzing samples and documenting property conditions and XRF sample analysis results on a field sketch.

Task Order Progress Report

Task Order Number	0056
Task Order Title	RI/FS, United Zinc Number 1 Site
Task Order Type (Ceiling or FP)	Ceiling
Period of Performance	September 20, 2012, through March 31, 2015

Monthly and total production for the soil sampling effort are summarized below:

	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>Total</u>
<i>Properties Assessed</i>	196	264	223	160	150	15	1,008
<i>Properties > 400 ppm*</i>	146	136	130	100	55	7	574
<i>Samples Collected</i>	1,256	1,969	1,792	1,161	981	206	7,365
<i>Confirmation Samples</i>	171	208	150	155	116	0	800

** Number of properties with non-drip zone areas that contained lead at a concentration greater than 400 parts per million (ppm).*

Other efforts completed under this subtask included an initial review of digitized property maps. Approximately, 700 of the 1,008 maps were initially reviewed during the October reporting period. The remaining initial reviews will be completed by mid-November. The review consists of comparing the features on the digitized map to the actual property and insuring the appropriate sample areas are highlighted as exceeding 400 ppm. A final review will be completed by the HGL PM once the initial reviews are complete.

To keep the TOPO apprised of ongoing work, a weekly status report is prepared and submitted every Friday via email.

The fish tissue sampling requested by EPA's risk assessor also was scoped under this subtask. This fieldwork was conducted the week of October 15 by HGL's electro-fishing subcontractor The Watershed Institute. Over 1,000 fish were obtained: 9 whole body and 15 fillet samples were selected as samples. The analytical results will be submitted to EPA's risk assessment contractor for use in their risk analysis.

Subtask 3.4.3 Well Sampling

HGL continued searching for private wells by contacting the city administrator and his assistant. They indicated there were no known private wells within the city limits and that the city water supply lines extended approximately five miles beyond the city limits. HGL retained the services of a local community member with knowledge of local conditions to locate private wells within or near the city limits. Access was obtained to sample five private wells.

Subtask 3.4.4 Sediment and Surface Water Sampling

Labor hours were expended to prepare for the upcoming sampling effort and to coordinate access from farmers along the Neosho River for the sampling effort.

Task Order Progress Report

Task Order Number	0056
Task Order Title	RI/FS, United Zinc Number 1 Site
Task Order Type (Ceiling or FP)	Ceiling
Period of Performance	September 20, 2012, through March 31, 2015

Subtask 3.4.5 Stream Bank Soil Sampling

This effort was descope by the EPA TOPO in September 2013.

Subtask 3.4.6 Indoor Dust Sampling

This effort was descope by the EPA TOPO in September 2013.

Subtask 3.4.7 Drip Zone Surface Soil Sampling – Not Assigned

Subtasks 3.5 and 3.6 – Not Assigned

Subtask 3.7 Manage Investigation-Derived Waste

No activities were conducted under this subtask during this reporting period.

Subtask 3.8 Site Reconnaissance

No activities were conducted under this subtask during this reporting period.

Subtask 3.9 Ecological Characterization – Not Assigned

TASK 4 - SAMPLE ANALYSES (SN)

Subtask 4.1 Sample Analysis

Costs for this subtask are allocated under Subtask 4.2.

Subtask 4.2 Soil Sample Speciation Study

No activities were conducted under this subtask during this reporting period.

TASK 5 - ANALYTICAL SUPPORT AND DATA VALIDATION (AN)

Subtask 5.1 Sample Collection and Preparation

This subtask includes only sample shipment efforts. No activities were conducted under this subtask during this reporting period.

Subtask 5.2 Data Quality Objectives – Not Assigned

Subtask 5.3 Not Applicable

Subtask 5.4 Coordinate Sample Delivery

Task Order Progress Report

Task Order Number	0056
Task Order Title	RI/FS, United Zinc Number 1 Site
Task Order Type (Ceiling or FP)	Ceiling
Period of Performance	September 20, 2012, through March 31, 2015

Subtask 5.4.1 EPA Region 7 Laboratory

HGL coordinated with Nicole Roblez at the EPA Region 7 laboratory regarding the risk assessment sampling effort. EPA risk assessors requested that HGL collect samples from the former smelter properties, sensitive habitats, species of concern areas, Elm Creek, Rock Creek and the Neosho River.

Subtask 5.4.2 Speciation Lab – In Vitro

No activities were conducted under this subtask during this reporting period.

Subtask 5.4.3 Speciation Lab – In Vivo – Not Assigned

Subtask 5.5 Not Assigned

Subtask 5.6 Data Management

Costs associated with data management are captured under Subtask 6.1

Subtask 5.7 Data Validation

This subtask was eliminated during the scoping meeting.

Subtask 5.8 Review Data Usability

Subtask 5.8.1 XRF vs Laboratory Data Correlation

HGL updated the correlation coefficient (R^2) for the lead laboratory data versus the XRF field data with the data received on October 25 for ASR 6176. The calculated R^2 is 0.92. EPA Method 6200 defines anything greater than 0.7 as acceptable.

Subtask 5.8.2 Particle Size Correlation

HGL updated the R^2 to include the 60-mesh versus 10-mesh XRF soil sample data generated during the October reporting period. The calculated R^2 was 0.97. The same evaluation criteria applied to the XRF versus laboratory data in subtask 5.8.1 is applied for the particle size correlation.

Subtask 5.8.3 Speciation Data Report Review

No activities were conducted under this subtask during this reporting period.

Task Order Progress Report

Task Order Number	0056
Task Order Title	RI/FS, United Zinc Number 1 Site
Task Order Type (Ceiling or FP)	Ceiling
Period of Performance	September 20, 2012, through March 31, 2015

TASK 6 - DATA EVALUATION (DE)

Subtask 6.1 Data Reduction and Tabulation

The HGL database specialist continued reducing the XRF data and formatting data and property contact information for entry into the EPA Oracle database. The database specialist also formatted property access agreements before they were uploaded to the EPA database.

Subtask 6.2 Environmental Fate and Transport Modeling/Evaluation

No activities were conducted under this subtask during this reporting period.

Subtask 6.3 Hazardous Metals Co-Location Evaluation

HGL completed the revision of the Data Correlation and Hazardous Metals Co-Location Evaluation Report, which was originally submitted to EPA under task order 0028. The EPA TOPO requested that HGL update the report with the new correlation value calculated (see Subtask 6.1). The draft report was submitted to EPA on February 20, 2013. EPA provided comments on the report on March 13. HGL revised the report and resubmitted the revised version to EPA on April 25.

Subtask 6.4 Soil Contaminant Trend Evaluation – Not Assigned

Subtask 6.5 Mail Data Transmittal Letters

Subtask 6.5.1 Newly Sampled Properties

No activities were conducted under this subtask during this reporting period.

Subtask 6.5.2 Historically Sampled Properties

EPA provided HGL with a .pdf version of the Removal Action Summary Report that contained the field sketches for the properties previously assessed. HGL created approximately 1,600 individual .pdf files, one for each property, of the field sketches with unique identifiers. EPA requested that HGL establish and host an FTP site to transfer data as necessary. The 1,600 files were uploaded to the FTP site in early October 2012. EPA tested the site and noted that the site met their requirements.

TASK 7 - ASSESSMENT OF RISKS (RA)

Subtask 7.1 Human Health Risk Assessment

This subtask was eliminated from HGL's scope of work during the scoping meeting; EPA elected to conduct this work.

Task Order Progress Report

Task Order Number	0056
Task Order Title	RI/FS, United Zinc Number 1 Site
Task Order Type (Ceiling or FP)	Ceiling
Period of Performance	September 20, 2012, through March 31, 2015

Subtask 7.2 Ecological Risk Assessment

This subtask was eliminated from HGL's scope of work during the scoping meeting; EPA elected to conduct this work.

TASK 8 - TREATABILITY STUDY/PILOT TESTING (TT) - NOT ASSIGNED

TASK 9 - REMEDIAL INVESTIGATION REPORT (RR)

Subtask 9.1 Draft Remedial Investigation Report

No activities were conducted under this subtask during this reporting period.

Subtask 9.2 Final Remedial Investigation Report

No activities were conducted under this subtask during this reporting period.

TASK 10 - REMEDIAL ALTERNATIVE SCREENING (RS)

Subtask 10.1 through 10.5 - Not Assigned

Subtask 10.6 Remedial Alternatives Screening Section

No activities were conducted under this subtask during this reporting period.

TASK 11 - REMEDIAL ALTERNATIVES EVALUATION (RE)

No activities were conducted under this subtask during this reporting period.

TASK 12 - FS REPORT (FS)

Subtask 12.1 Draft Feasibility Study Report

No activities were conducted under this subtask during this reporting period.

Subtask 12.2 Final Feasibility Study Report

No activities were conducted under this subtask during this reporting period.

TASK 13 - POST RI/FS SUPPORT (PR)

Subtask 13.1 Attend Public Meetings - Not Assigned

Subtask 13.2 Prepare Presentation Materials

No activities were conducted under this subtask during this reporting period.

Task Order Progress Report

Task Order Number	0056
Task Order Title	RI/FS, United Zinc Number 1 Site
Task Order Type (Ceiling or FP)	Ceiling
Period of Performance	September 20, 2012, through March 31, 2015

Subtask 13.3 Assist with Responsiveness Summary – Not Assigned

Subtask 13.4 Assist with Proposed Plan and ROD

No activities were conducted under this subtask during this reporting period.

Subtask 13.5 Assist with FS Addendum – Not Assigned

TASK 14 - NEGOTIATION SUPPORT (NG) – NOT ASSIGNED

TASK 15 - ADMINISTRATIVE RECORD (AR) – NOT ASSIGNED

TASK 16 - TASK ORDER CLOSE OUT (CO)

Subtask 16.1 File Duplication, Distribution, Storage, and Archiving

No activities were conducted under this subtask during this reporting period.

Subtask 16.2 Return Documents to EPA

No activities were conducted under this subtask during this reporting period.

Subtask 16.3 Prepare Data Storage Media

No activities were conducted under this subtask during this reporting period.

Subtask 16.4 Task Order Closeout Report

No activities were conducted under this subtask during this reporting period.

2. SCHEDULE AND COST VARIANCES WITH RECOMMENDED SOLUTIONS

None to report.

3. OTHER PROBLEMS AND RECOMMENDED SOLUTIONS

None to report.

4. CONTRACTOR INITIATED INNOVATIONS AND COST SAVINGS

The State of Kansas considers the Neosho River to be private property; thus, HGL had to obtain permission from approximately 25 land owners to float down the river on their property and to collect samples from 10 locations along the river. It was anticipated that most of the farmers would not cooperate due to our previous interactions while attempting gain access to their properties in Iola. HGL researched options to this potential issue and identified a local community member, formerly employed at the Iola office of the U.S. Department of Agriculture

Task Order Progress Report

Task Order Number	0056
Task Order Title	RI/FS, United Zinc Number 1 Site
Task Order Type (Ceiling or FP)	Ceiling
Period of Performance	September 20, 2012, through March 31, 2015

(USDA), who had worked with local farmers to process insurance claims. HGL paid this individual a unit cost per property where access was obtained; where private wells were identified and access obtained; and to correct inaccurate county appraiser owner information. Through this local contact, HGL obtained access to 25 properties, permission to sample 5 wells, and 5 property ownership records were corrected for a total of \$875. HGL estimates that these efforts would have required at least 20 hours for a mid-level staff member and junior level staff member, and resulted in a total cost of \$3,954.60. The cost savings to EPA was \$3,079.60.

5. ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

The activities planned for the next period include the following:

- Weekly cost tracking, filing, and routine communications with the EPA TOPO.
- Prepare the monthly status report and invoice for the previous reporting period.
- Complete the initial review and begin the final review of the property map deliverables.
- Collect the risk assessment samples. The risk assessment samples include: smelter property samples, sensitive habitat samples, species of concern samples, and surface water and sediment samples. This effort is scheduled for November 4.
- Prepare site map illustrating the highest lead result for each property for Dr. Drexler to use to select speciation samples.

Report A: Task Order Summary

This report provides an overview of the entire Task Order, including current and cumulative expenditures, percent of project complete, current funding level, negotiated work plan hours and dollars, estimate to complete, and any open payment suspensions on the Task Order.

Report B: Cumulative Labor Report for Task Order

This report provides the cumulative expenditures by labor category for hours and dollars for the entire Task Order.

Report C: Task Level Summary

This report provides a summary of the expenditures for each task within the statement of work, including labor, subcontracts, travel, and other ODCs.

Report D: Current Labor Report

This report provides a summary of personnel for the reporting period and cumulative expenditures for all labor by task.

Task Order Progress Report

Task Order Number	0056
Task Order Title	RI/FS, United Zinc Number 1 Site
Task Order Type (Ceiling or FP)	Ceiling,
Period of Performance	September 20, 2012, through March 31, 2015

Report E: Subcontract Report

This report provides information on activities and costs of any subcontract efforts under the Task Order for each task.

Report F: ODC Report

This report provides information on ODCs incurred other than subcontract or travel under the Task Order for each task.

Report G: Travel Report

This report provides information on travel directly related to the Task Order by task.